

PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/087,437
Filing Date	March 2, 2002
First Named Inventor	Kimmo Laiho
Art Unit	2684
Examiner Name	Alan T. Gantt
Attorney Docket Number	004770.00033

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
TR		US- 2004/0242163 A1	12-02-2004	Karr et al.	
		US- 2004/0102213 A1	05-27-2004	Karr et al.	
		US- 2004/0102214 A1	05-27-2004	Karr et al.	
		US- 2004/0102215 A1	05-27-2004	Karr et al.	
		US- 2004/0097194 A1	05-20-2004	Karr et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS

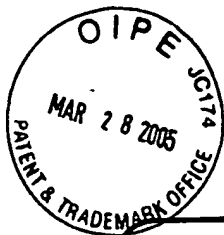
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TR		FALK, Aaron David, "A System design For A Hybrid Network Data Communications Terminal Using Asymmetric TCP/IP To Support Internet Applications," Master of Science Thesis, 1994, 78 pages	
TR		FT Interactive Data, printed from http://www.interactivedata.com/images/IDC_timeline.swf , on 3/28/05, 4 pages	
TR		ANKENY, Jason, "Safe At Any Speed", printed from http://wirelessreview.com/ar/wireless_safe_speed/ , on 3 pages, Wireless, June 1, 2004	
TR		"Mobility and the Implications of Wireless Technologies," printed from http://www.wss.princeton.edu/cgi-bin/byteserv.pl/~ota/disk1/1995/9547/954705.PDF , chapter 2, pages 47-64, September, 1995	

Examiner Signature		Date Considered	2/1/06
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Sheet 2 of 2

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Examiner Name	Alan T. Gantt
Attorney Docket Number	004770.00033

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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TR		Welcome to eSignal!, printed from http://www.esignal.com/default.asp , on March 22, 2005, 2 pages	
		Welcome to the QuoTrek Product Site!, printed from http://www.quotrek.com/ on March 22, 2005, 2 pages	
		VAIDYA, Nitin H., et al., "Scheduling data broadcast in asymmetric communication environments," Wireless Networks, Volume 5, Issue 3, May 1999, pages 171-182	
		"New Flexible Network-based RTK Service in Japan," printed from http://www.geomatics.ucalgary.ca/~lachapel/00GPSIP.pdf , 8 pages, Approximate Publication: after 1999	
		"Semiconductor Delivers Complete Solution for Microsoft's New Smart Personal Objects Technology Initiative," printed from http://www.national.com/news/item/0,1735,829,00.htm on March 28, 2005, 30 pages	
		American Meteorological Society, "Unidata's Internet Data Distribution (IDD) System: Two Years of Data Delivery," printed from http://www.unidata.ucar.edu/projects/idd/ips97_mitch.html , 6 pages, 1997	
		Unidata - IDD Principles, "Principles Underlying Internet Data Distribution," printed from http://www.unidata.ucar.edu/projects/idd/plans/principles.html , 2 pages, June 29, 1994	

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		US-			

FOREIGN PATENT DOCUMENTS

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
TR		DE 199 10 023 A1	09-14-2000	Rohde & Schwarz GmbH & Co KG		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TR		KELLERER, W., "A Versatile Network Independent Server Architecture for Multimedia Information and Communication Services," In Proceedings of SmartNet2000, Sixth IFIP International Conference on Intelligence in Networks, Vienna, Austria, September 18-22, 2000, pages 1-20 http://www.lkn.ei.tum.de/~wolfgang/wk/publ/kellerer_smartnet00a.pdf	
TR		KELLERER, ET AL., W, "IP based enhanced Data Casting Services over Radio Broadcast Networks," In Proceedings of ECUMN 2000, IEEE European Conference on Universal Multiservice Networks, Colmar, France, October 2-4 2000, 9 pages http://www.lkn.ei.tum.de/~wolfgang/wk/publ/kellerer_ecumn2000.pdf	
TR		IMIELINSKI, Tomasz and BADRINATH, B.R., "Mobile wireless computing: challenges in data management, Communications of the ACM," Volume 37, Issue 10 (October 1994), Pages: 18 - 28, Year of Publication: 1994, ISSN:0001-0782	
TR		KLINGENBERG, Wolfgang and NEUTEL, Andreas, "MEMO: A Hybrid DAB/GSM Communication System for Mobile Interactive Multimedia Services," Proc. of ECAST', Berlin, Germany, 1998, Lecture Notes in Computer Science Vol. 1425, Springer-Verlag Berlin Heidelberg New York, pages 493-503 http://impact-intel.lboro.ac.uk/memo/bosch/ecmast98.pdf	

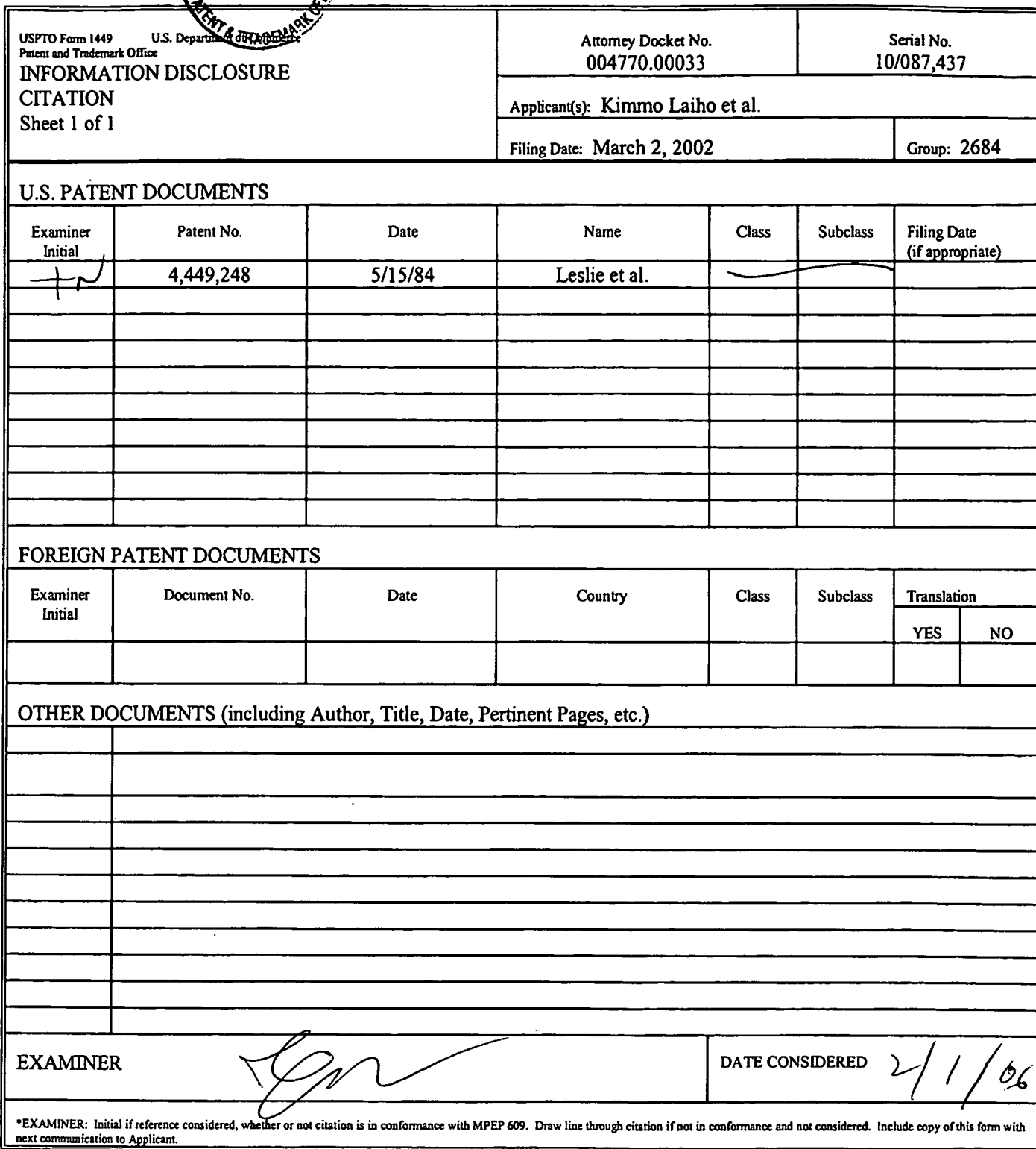
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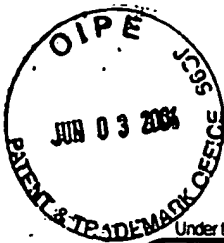
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/087,437
				Filing Date	March 2, 2002
				First Named Inventor	Kimmo Laiho et al.
				Art Unit	2684
				Examiner Name	TBD
Sheet	1	of	1	Attorney Docket Number	004770.00033

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
TN		US-5,936,965	8/10/99	Doshi et al.	RECEIVED JUN 08 2004 Technology Center 2600
		US- 5,764,700	6/09/98	Makinen	
		US- 5,359,607	10/25/94	Nguyen et al.	
		US- 4,601,586	7/22/86	Bahr et al.	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS						
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
TN		Written Opinion from PCT/IB03/00694 dated May 3, 2004				

Examiner Signature		Date Considered	2/1/06
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Sheet	1	of	2	Attorney Docket Number	004770.00033

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		US-			
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TA		DE 101 64 665 A1	08-01-2002	Vtech Communications Ltd.		
TA		EP 0 577 322 A1	01-05-1994	Nokia Mobile Phones Ltd.		

Examiner Signature		Date Considered	2 / 1 / 06
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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		Search Report	
TR		NEN-FU HUANG ET AL, "Architectures and Handoff Schemes for CATV-Based Personal Communications Network," Infocom '98, Seventeenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings, IEEE San Francisco, CA, USA, March 29 to April 2, 1998; IEEE New York, NY, USA, March 29, 1998, pages 748-755	

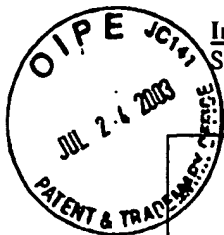
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**Information Disclosure Statement**

Serial No. 10/087,437

Sheet 1 of 1

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 004770.00033	SERIAL NUMBER 10/087,437
	APPLICANT Kimmo Laiho	
	FILING DATE March 2, 2002	GROUP ART UNIT 2684

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
TR	2002/0025777 A1	2/28/02	Kawamata et al.			
	6,167,248	12/26/00	Hamalainen et al.			
	6,088,412	7/11/00	Ott			
	6,047,181	4/4/00	Suonvieri			
	5,870,675	2/9/99	Tuutijärvi et al.			
	5,513,246	4/30/96	Jonsson et al.			

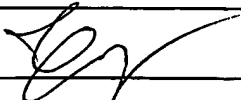
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Search Report

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IDS w/1449 form filed: July 24, 2003

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	APPLICANT Kimmo Laiho	
	FILING DATE March 2, 2002	GROUP ART UNIT 2684

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TR	2003/0067943 A1	4/10/03	Arsenault et al.			
	6,490,727	12/3/02	Nazarathy et al.			
	6,356,555	3/12/02	Rakib et al.			
	6,335,766	1/1/02	Twitchell et al.			
	6,285,686	9/4/01	Sharma			

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Search Report

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IDS w/1449 form filed: July 15, 2003



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		US-5,710,756	01-20-1998	Pasternak	
		US- 5,886,995	03-23-1999	Arsenault	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
TD		WO 02/01879	01-03-2002	Aaltonen et al.		
		WO 02/03728	01-10-2002	Salo et al.		
		WO 02/03729	01-10-2002	Salo et al.		
		WO 01/31963	05-03-2001	Hasan et al.		
		WO 01/72076	09-27-2001	Xu et al.		

Examiner Signature		Date Considered	2/1/06
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08B(10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	2	of	2
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Complete if Known

Application Number	10/087,437
Filing Date	March 2, 2002
First Named Inventor	Kimmo Laiho et al.
Group Art Unit	2684
Examiner Name	TBD
Attorney Docket Number	004770.00033.

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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Electronic Information Disclosure Statement

SYSTEM AND METHOD FOR BROADBAND DIGITAL BROADCASTING

Application:



10/087437

Confirmation:

3461

Applicant(s):

Kimmo Laiho

Docket Number:

004770.00033

Group Art Unit:

Examiner:

search string:

(5745860 or 4449248 or 5539925 or 20020010763).pn.

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US Patent Documents

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init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
TM	P01	5745860	1998-04-28		Kallin		
TM	P02	4449248	1984-05-15		Leslie et al.		
TM	P03	5539925	1996-07-23		Yli-Kotila et al.		

Published Applications

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
TM							

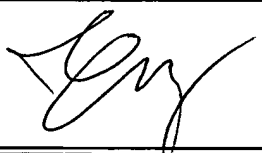
	U01	20020010763	2002-01-24		Juha Salo et al.
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Remarks

(Remarks are not for responding to an office action.)

Pursuant to 37 C.F.R. 1.56 and in compliance with 37 C.F.R. 1.97, Applicant submits the above information for consideration by the Examiner. Applicant does not waive any right to take appropriate action to establish patentability over the listed documents should they be applied as a reference against the claims of the present application. Consideration of the cited information and making the same of record in the prosecution of the above noted application are respectfully requested. Should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

Signature

Examiner Name	Date
	2/1/06



USPTO Form 1449 U.S. Department of Commerce
Patent and Trademark Office
**INFORMATION DISCLOSURE
CITATION**
Sheet 1 of 1

Attorney Docket No.
004770.00033

Serial No.
10/087,437

Applicant(s): Kimmo Laiho et al.

Filing Date: March 2, 2002

Group: 2643

U.S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)

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FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
						YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

TR	Apostolis K. Salkintzis et al., "An In-Band Power-Saving Protocol for Mobile Data Networks", IEEE Transactions On Communications, Vol. 46, No. 9, September 1998, pages 1194-1205
TN	Apostolis K. Salkintzis et al., "Performance Analysis of a Downlink MAC Protocol with Power-Saving Support", IEEE Transactions On Vehicular Technology, Vol. 49, No. 3, May 2000, pages 1029-1040

EXAMINER

DATE CONSIDERED

2/1/06

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FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 004770.00033	Serial No. 10/087,437
		Applicant: Laiho et al	
		Filing Date: March 2, 2002	Group: MAY 14 2002 2643 Technology Center 2600

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U.S. PATENT DOCUMENTS

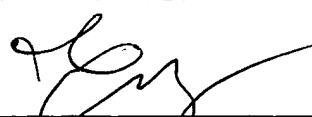
Examiner Initial	Document Number	MM/DD/YY Date	Name	Class	Subclass	Filing Date if Appropriate
TR	5,307,376	04/26/1994	Castelain et al			
TR	5,657,313	08/12/1997	Takahashi et al			
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FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

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Sheet 1 of 1

Application Number	10/087,437
Filing Date	03/02/2002
First Named Inventor	Kimmo Laiho
Group Art Unit	
Examiner Name	
Attorney Docket Number	004770 00033

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Sheet 1 of 1

of 1

Complete if Known

Application Number	10/087,437
Filing Date	03/02/2002
First Named Inventor	Kimmo Laiho
Group Art Unit	
Examiner Name	
Attorney Docket Number	004770 00033

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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